

Application No. 09/309,844
Attorney Docket No. 96-753.1

DECLARATION OF WILLIAM PACK

I, William Pack, hereby declare that:

1. I am the William Pack named as inventor in this patent application.
2. I am employed by Caterpillar Peterlee Limited as an Engineering Manager, and I have worked in the field of work machines (such as articulated truck for example) since at least as early as 1973.
3. I received a Certificate in Mechanical Engineering from Rutherford College of Advanced Technology, United Kingdom (now University of Northumbria) in 1968.
4. Selection of the height of the cooling core of a radiator or heat exchanger ("radiator") for an engine of a work machine (such as an articulated truck for example) is critical to its function since the cooling capacity of the radiator is generally dependent upon the size of radiator and the size is dependent upon the height of the radiator.
5. Increasingly stringent requirements for engine emissions have generally led to higher engine heat rejection requirements and increased cooling capacity requirement for work machine engines.
6. Operators of work machines (such as articulated trucks for example) increasingly demand less obstruction of visibility from the operator cab of the machine, for example by any engine enclosure positioned forward of the operator cab.
7. In work machines in which the radiator is positioned forward of the operator cab in an engine enclosure having an upper surface, increasing the height of the radiator to increase cooling capacity would increase the height of the engine enclosure upper surface, thus altering its function by undesirably decreasing visibility from the operator cab.
8. In a work machine as described in paragraph 7, lowering the height of the upper surface of the engine enclosure to improve operator visibility would require lowering the height of the radiator, thus altering the function of the radiator by undesirably reducing its cooling capacity (unless other dimensions or features of the radiator are changed).
9. All statements made of my own knowledge are true, and all statements made on information and belief are believed to be true.
10. I have been warned the willful false statements and the like are punishable by fine or imprisonment, or both (35 U.S.C. §1001) and may be jeopardize the validity of this application or any patent issuing thereon.

William Pack

Date